

**B. Clean Specification Changes**

Please replace paragraph(s) starting at page 17, line 6 and ending at page 17, line 10 with the following paragraph(s):

As described above, if AP signatures are mapped with the scrambling codes, each of the 16 scrambling codes are different from one another. The respective scrambling codes SC#i have a channelization OVSF code tree. Accordingly, the channelization code of a data part ( $C_d$ ) and a control part ( $C_c$ ) in a message part is selected in the channelization OVSF code tree of the respective scrambling code.

Please replace paragraph(s) starting at page 17, line 13 and ending at page 18, line 5 with the following paragraph(s):

Referring to Figure 7a, in an OVSF code tree of each scrambling code, a channelization code  $C_d$  of the data part is selected from the codes having spreading factors  $4 \sim 256$  in a direction of an up branch  $C_{SF,0}$  or  $C_{SF,SF/2}$  from a node  $C_{2,0}$  or  $C_{2,1}$  having a spreading factor of 2. Additionally, a code  $C_{256,127}$  or  $C_{256,255}$ , which is located last in a direction of a down branch, i.e., a code having a spreading factor of 256, is selected as a channelization code  $C_c$  of the control part. The (n)th channelization code with a spreading factor SF can also be written  $C_{ch,SF,n}$ .

*A2*  
Referring to Figure 7b, a code  $C_{256,0}$  or  $C_{256,128}$ , which is located last in a direction of an up branch from a node having a spreading factor of 2 is selected as a channelization code  $C_c$  of the control part. Additionally, a lower node of two nodes having a spreading factor of 4 generated from a node having a spreading factor of 2 is selected and one of codes having spreading factors  $4 \sim 256$  in a direction of an up branch  $C_{SF,SF/4}$ ,  $C_{SF,3*SF/4}$  of the selected node is selected as a channelization code  $C_d$  of the data part.

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*A4*  
Please replace paragraph(s) starting at page 18, line 18 and ending at page 18, line 18 with the following paragraph(s):

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*A3*  
The number of scrambling codes =  $\frac{32}{SF_{\min}}$  ....(1)

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*A4*  
Please replace paragraph(s) starting at page 20, line 12 and ending at page 20, line 14 with the following paragraph(s):

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Referring to Figure 9, each scrambling code used in an uplink in a wide band code division multiple access communication system is a long code and has  $2^{25}-1$  chip codes. Each scrambling code thus has a chip length of  $2^{25}-1 = 33554431$ .

**Please replace paragraph(s) starting at page 25, line 9 and ending at page 26, line 2 with the following paragraph(s):**

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Referring to Figures 11a and 11b, two methods are used for selecting the channelization code. As shown in Figure 11a, in the OVSF code tree, a channelization code  $C_d$  of the data part is selected from codes having spreading factors  $4 \sim 256$  in a direction of an up branch  $C_{SF,0}$  or  $C_{SF,SF/2}$  from a node  $C_{2,0}$  or  $C_{2,1}$  having a spreading factor of 2. A code  $C_{256,127}$  or  $C_{256,255}$  located last in a direction of a down branch, i.e., a code having a spreading factor of 256, is selected as a channelization code  $C_c$  of the control part.

*AS*  
Referring to Figure 11b, a code  $C_{256,0}$  or  $C_{256,128}$  located last in a direction of an up branch from a node having a spreading factor of 2 is selected as a channelization code  $C_c$  of the control part, while a lower node of two nodes having a spreading factor of 4 generated from a node having a spreading factor of 2 is selected and one  $C_{SF,SF/4}$ ,  $C_{SF,3*SF/4}$  of codes having spreading factors  $4 \sim 256$  in a direction of the up branch from the selected lower node is selected as a channelization code  $C_d$  of the data part.

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**Please replace paragraph(s) starting at page 26, line 15 and ending at page 26, line 15 with the following paragraph(s):**

A6

$$\text{The number of scrambling codes} = \frac{32}{SF_{\min}} \quad \dots(2)$$

<sup>29</sup>  
Please replace paragraph(s) starting at page 28, line 10 and ending at page 28, line 12  
with the following paragraph(s):

A7

Referring to Figure 13, each scrambling code used in an uplink of a wide band code division multiple access communication system has  $2^{25}-1$  codes as long codes. Each scrambling code has a length corresponding to  $2^{25}-1 = 33554431$  chips.

<sup>44</sup>  
Please replace paragraph(s) starting at page 43, line 10 and ending at page 43, line 10  
with the following paragraph(s):

A8

In transmission of the PCPCH, the mobile station uses a node  $C_{2,0}$  having a spreading factor of 2 on the OVSF code tree against all of the CA-AICHs as a channelization code. In other words, the mobile station uses a node  $C_{256,0}$  as a channelization code of the control part in the message part of the PCPCH and a node  $C_{SF,SF/4}$  variable depending on the spreading factor as a channelization code of the data part.